INTERNATIONAL SEARCH REPORT

International Application No PCI/IB2004/050324

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H03G3/00 H03G H03G7/00 H03M7/00 According to International Patent Classification (IPC) or to both national classification and iPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 H03M HO3G Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Α EP 0 482 927 A (NIPPON ELECTRIC CO) 1-12 29 April 1992 (1992-04-29) figure 1 US 6 405 092 B1 (OXFORD WILLIAM VINCENT) Α 1 - 1211 June 2002 (2002-06-11) cited in the application figure 3 "STEREO DIGITAL VOLUME CONTROL A CRYSTAL Α 1-12 SEMICONDUCTOR APPLICATIONS" ELEKTOR ELECTRONICS, ELEKTOR PUBLISHERS LTD. CANTERBURY, GB, vol. 22, no. 243 1 April 1996 (1996-04-01), pages 46-47,49, XP000583422 ISSN: 0268-4519 figure 2 -/--Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international invention "X" document of particular relevance; the claimed invention filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the ort. *O* document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 28 July 2004 09/08/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Winkler, G Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

In ational Application No PCT/IB2004/050324

C./Continue	tion) DOCUMENTS CONSIDERED TO CHARLES	PC1/1B2004/050324
Category •	cition) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	
gory	where appropriate, of the relevant passages	Relevant to claim No.
A	DE 40 36 730 A (THOMSON BRANDT GMBH) 21 May 1992 (1992-05-21) abstract; figure 1	1-12
A	EP 0 887 797 A (THOMSON BRANDT GMBH) 30 December 1998 (1998-12-30) abstract	1-12
A	MACSORLEY O L: "HIGH-SPEED ARITHMETIC IN BINARY COMPUTERS" PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS, IEEE INC. NEW YORK, US, vol. 49, no. 1, January 1961 (1961-01), pages 67-91, XP001002205 page 72, left-hand column, line 27 - line 42	12
	US 4 566 076 A (VAN DER STEEN ANTONIE C A M) 21 January 1986 (1986-01-21) abstract; figure 2	1-12
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCI/IB2004/050324

			1 01/102004/050324		2004/050324
Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 0482927	A	29-04-1992	JP JP AU CA DE DE EP US	2671595 B2 4160844 A 638362 B2 8674791 A 2054173 A1 69110103 D1 69110103 T2 0482927 A2 5533064 A	29-10-1997 04-06-1992 24-06-1993 30-04-1992 26-04-1992 06-07-1995 04-01-1996 29-04-1992 02-07-1996
US 6405092	B1	11-06-2002	NONE	,	
DE 4036730	A	21-05-1992	DE	4036730 A1	21-05-1992
EP 0887797	A	30-12-1998	DE CN EP JP US	19727133 A1 1204124 A ,C 0887797 A2 11146233 A 6654471 B1	07-01-1999 06-01-1999 30-12-1998 28-05-1999 25-11-2003
US 4566076	А	21-01-1986	NL CA DE ES FR GB IE IT JP JP	8100307 A 1184304 A1 3200895 A1 8305542 A1 2498848 A1 2091918 A ,B 52516 B1 1149711 B 1768160 C 4045859 B 57145415 A	16-08-1982 19-03-1985 12-08-1982 01-07-1983 30-07-1982 04-08-1982 25-11-1987 10-12-1986 11-06-1993 28-07-1992 08-09-1982